RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

DATE: 04/10/97 TIME: 08:46:56

INPUT SET: S16859.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1		SEQUENCE LISTING
2		$C_{\alpha} = Q_{\alpha}$
3	(1) G	eneral Information:
4 5 6 7 8	(i)	SEQUENCE LISTING eneral Information: APPLICANT: Campbell, Robert K. Jameson, Bradford A. Chappel, Scott C. TITLE OF INVENTION: HYBRID PROTEINS
9 10	(ii)	TITLE OF INVENTION: HYBRID PROTEINS
11 12	(iii)	NUMBER OF SEQUENCES: 22
13 14 15 16 17 18	(iv)	CORRESPONDENCE ADDRESS: (A) ADDRESSEE: BROWDY AND NEIMARK (B) STREET: 419 Seventh Street N.W., Ste. 300 (C) CITY: Washington (D) STATE: D.C. (E) COUNTRY: USA (F) ZIP: 22207
20 21 22 23 24 25	(V)	COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (Vi) W.A. AFP. DATA
26 27 28 29 30 31	(vii) t v1 3	(B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: 60/011,936 (B) FILING DATE: 20 February 1996 (C) CLASSIFICATION:
32 33 34 35 36	(viii)	ATTORNEY/AGENT INFORMATION: (A) NAME: Browdy, Roger L. (B) REGISTRATION NUMBER: 25,618 (C) REFERENCE/DOCKET NUMBER: CAMPBELL=2A
37 38 39 40	(ix)	TELECOMMUNICATION INFORMATION: (A) TELEPHONE: (202) 628-5197 (B) TELEFAX: (202) 737-3528
41 42	(2) INFO	RMATION FOR SEQ ID NO:1:
43	(i)	SEQUENCE CHARACTERISTICS:
44	- '	(A) LENGTH: 1049 base pairs
45		(B) TYPE: nucleic acid
46		(C) STRANDEDNESS: single

RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

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47		(D) TO	POLO	GY:	line	ear									
48	(ii) MOL	ECULI	E TY	PE:	cDN!	1									
49																
50	(ix) FEA	TURE	:												
51		(A	.) NAI	ME/K	EY:	CDS										
52		(B) LO	CATI	ON:	278.	.104	17								
53																
54	(xi) SEQ	UENC	E DE	SCRI	PTIC	on: s	SEQ]	D NO):1:						
55																
56	TCCACAT	GGC T	ACAG	GTAA	G CG	CCCC	TAA	ATC	CCTI	rtgg	GCAC	CAATO	TG T	CCTC	BAGGGG	60
57																
58	AGAGGCA	GCG A	CCTG	TAGA	T GG	GAC	GGGG	CAC	TAAC	CCCT	CAG	TTTC	egg (CTTC	CTCAAT	120
59																
60	CTCACTA	TCG C	CATG'	TAAG	c cc	AGT	TTTC	G GC	CAATO	CTCA	GAAA	AGCTO	CT (CTC	CCTGGA	180
61																
62	GGGATGG	AGA G	AGAA	AAAC.	A AA	CAGO	TCCI	r gg/	AGCAG	BGGA	GAGT	CCTC	GC (CTCTT	rgctct	240
63																
64	CCGGCTC	CCT C	TGTT	GCCC	T CI	GGTT	TCTC	ccc	CAGGO	TC	CGG	ACC	TCC	CTC	G CTC	295
65										Sei	r Arg	y Thi	Sei	: Lei	ı Leu	
66										1	L			5	5	
67																
68	CTG GCT															343
69	Leu Ala	Phe	Gly 1	Leu	Leu	Cys	Leu	Pro	Trp	Leu	Gln	Glu	Gly	Ser	Ala	
70			10					15					20			
71																
72	GAT AGT															391
73	Asp Ser		Cys 1	Pro	Gln	Gly	_	Tyr	Ile	His	Pro		Asn	Asn	Ser	
74		25					30					35				
75																
76	ATT TGC															439
77	Ile Cys	_	Thr 1	Lys	Cys		Lys	СТĀ	Thr	Tyr		Tyr	Asn	Asp	Cys	
78	40					45					50					
79																
80	CCA GGC															487
81	Pro Gly	Pro	сту с	GIn .	_	Thr	Asp	Cys	Arg		cys	GIU	Ser	GTÀ		
82	55				60					65					70	
83	mmaaa	aam i	ma	a		~~~	ama		a.a	maa	ama		maa	maa		E 3 E
84	TTC ACC															535
85	Phe Thr	ата :	ser (Asn	HIS	Leu	Arg		cys	Leu	Ser	cys		ràz	
86				75					80					85		
87	maa aas		a	.	aam	a. a	ama	~~~	1 ma	mam	mam	maa		ama	a.a	E00
88	TGC CGA															583
89	Cys Arg	Lys (мет	стА	GIN	vат		тте	ser	ser	Cys		val	Asp	
90			90					95					100			
91	000 010	N.C.C.	ama .	mam	000	maa	3.00	220	224	ara	ma a	000	O a m	mem	maa	621
92	CGG GAC															631
93	Arg Asp		val (cys	стλ	cys	_	гÀг	ASN	GIN	TYT	_	uis	ryr	ттр	
94		105					110					115				
95	→	מ מ מ	amm r	mm/a -	a a a	maa	mma	3 A ITT	шаа	N.C.C	OTHOR	maa	ama	מואג	aaa	670
96	AGT GAA															679
97	Ser Glu		red l	rne	GTU		rne	ASN	cys	ser		cys	ьeu	ASN	стА	
98 99	120					125					130					
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

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102	135					140			-		145			_		150	
103																	
104	CAT	GCA	GGT	TTC	TTT	CTA	AGA	GAA	AAC	GAG	TGT	GTC	TCC	TGT	GCC	GGT	775
105	His	Ala	Gly	Phe	Phe	Leu	Arg	Glu	Asn	Glu	Cys	Val	Ser	Cys	Ala	Gly	
106					155					160					165		
107																	
108				GGT													823
109	Ala	Ala	Pro	Gly	Cys	Pro	Glu	Cys	Thr	Leu	Gln	Glu	Asn	Pro	Phe	Phe	
110				170					175					180			
111																	
112	TCC	CAG	CCG	GGT	GCC	CCA	ATA	CTT	CAG	TGC	ATG	GGC	TGC	TGC	TTC	TCT	871
113	Ser	Gln	Pro	Gly	Ala	Pro	Ile	Leu	Gln	Cys	Met	Gly	Cys	Cys	Phe	Ser	
114			185					190					195				
115																	
116				CCC													919
117	Arg	Ala	Tyr	Pro	Thr	Pro	Leu	Arg	Ser	Lys	Lys	Thr	Met	Leu	Val	Gln	
118		200					205					210					
119																	
120				ACC													967
121	_	Asn	Val	Thr	Ser		Ser	Thr	Cys	Cys		Ala	Lys	Ser	Tyr		
122	215					220					225					230	
123																	
124				GTC													1015
125	Arg	Val	Thr	Val		GTÀ	GLY	Phe	Lys		GLu	Asn	His	Thr		Cys	•
126					235					240					245		
127	a. a	maa		3 CM	mam	m . m	m » m	a.a		mam	m a	3.0					1040
128				ACT							TA	AG					1049
129	HIS	cys	Ser	Thr	cys	Tyr	туг	HIS	. =	ser							
130				250					255								
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137			(i) 9	SEQUI	ENCE	CHAF	የልሮሞ፤	RTST	TCS	•							
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144		(2	ki) S	SEQUE	ENCE	DESC	RIP	CION	SEC	Q ID	NO:2	2:					
145		•	•	_					-								
146	Ser	Arg	Thr	Ser	Leu	Leu	Leu	Ala	Phe	Gly	Leu	Leu	Cys	Leu	Pro	Trp	
147	1	_			5					10					15	_	
148							•	•									
149	Leu	Gln	Glu	Gly	Ser	Ala	Asp	Ser	Val	Cys	Pro	Gln	Gly	Lys	Tyr	Ile	
150				20			-	•	-25	٠			-	30	•		
151																	
152	His	Pro	Gln	Asn	Asn	Ser	Ile	Cys	Cys	Thr	Lys	Cys	His	Lys	Gly	Thr	

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153			35					40					45	II	PUI	SE1:
154										_	_		_			
155	Tyr		Tyr	Asn	Asp	Cys		Gly	Pro	Gly	Gln		Thr	Asp	Cys	Arg
156 157		50					55					60				
157	Glu	Cve	Glu	Ser	Gl v	Ser	Pho	Thr	Δla	Ser	Glu	Δsn	Hig	T.e.11	Δra	His
159	65	cys	GIU	561	GLY	70	1110	****	AIG	501	75	AU	*****	пса	 9	80
160																
161	Cys	Leu	Ser	Cys	Ser	Lys	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val	Glu	Ile
162	_			_	85					90					95	
163					_					_		_				
164	Ser	Ser	Cys		Val	Asp	Arg	Asp		Val	Cys	Gly	Cys		Lys	Asn
165				100					105					110		
166 167	al n	П	Arg	uic	Птт	Tr.	Sor	al u	λen	LOU	Dho	Gl n	Cve	Dho	λen	Cue
168	GIII	ıyı	115	urs	ıyı	пр	Ser	120	ASII	rea	FIIC	GIII	125	FIIE	ASII	Cys
169			110					120								
170	Ser	Leu	Cys	Leu	Asn	Gly	Thr	Val	His	Leu	Ser	Cys	Gln	Glu	Lys	Gln
171		130	•			•	135					140			•	
172																
173	Asn	Thr	Val	Cys	Thr	_	His	Ala	Gly	Phe		Leu	Arg	Glu	Asn	
174	145					150					155					160
175	a	W-1		a	.1.	a1	3 J =	310	D=0	al		Dwo	a 1	O	Πh »	T 011
176 177	cys	vaı	Ser	cys	165	сту	АТА	АТА	Pro	170	cys	Pro	GIU	cys	175	Leu
178					103					1/0					1/3	
179	Gln	Glu	Asn	Pro	Phe	Phe	Ser	Gln	Pro	Glv	Ala	Pro	Ile	Leu	Gln	Cvs
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181																
182	Met	Gly	Cys	Cys	Phe	Ser	Arg	Ala	Tyr	Pro	Thr	Pro	Leu	Arg	Ser	Lys
183			195					200					205			
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185 186	гàг	7nr 210	Met	Leu	val	GIN	LуS 215	Asn	vaı	Thr	ser	220	ser	Thr	cys	cys
187		210					215					220				
188	Val	Ala	Lys	Ser	Tvr	Asn	Ara	Val	Thr	Val	Met	Glv	Glv	Phe	Lvs	Val
189	225		-1-		-] -	230	5				235	2				240
190																
191	Glu	Asn	His	Thr	_	Cys	His	Cys	Ser	Thr	Cys	Tyr	Tyr	His	_	Ser
192					245					250					255	
193																
194		TNE	201420	BTON.	EOD	CEO.	TD 1	70.2								
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207			(1	B) L	OCAT:	ION:	279	119	99								
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209		(xi) SE	QUEN	CE DI	ESCR:	IPTI	ON:	SEQ :	ID N	0:3:						
210																	
211	CTC	BAGA'	rgg (CTAC	AGGT	AA G	CGCC	CCTA	A AA'	rccc'	TTTG	GGC	ACAA!	rgt (GTCC:	rgaggg	60
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213	GAG	AGGT	AGC (GACC'	rgta(GA TO	3GGA	CGGG	3 GC	ACTA	ACCC	TGA	GTT'	rgg (GCT.	CTGAA	120
214																	
215	TGT	3AGT/	ATC (GCCA'	rgta <i>i</i>	AG C	CCAG'	ratt'	r gg	CCAA'	rgtc	AGA	AAGC'	rcc :	rggT(CCCTGG	180
216										~ > ~ ~			-maar			emaama	0.40
217	AGG	3A'I'G	BAG A	AGAGA	AAAA	AC A	AACAG	3CTC(J TG	3AGC/	AGGG	AGA	3.1.GC.	rgg (COTO:	FTGCTC	240
218	maa			namai	nmaa.	34 E/	3M001	nmmar		7030	7.0 M/	70 O	70 34	70 M	70 0	na	202
219	TCCC	3GC.L.	CCC :	I'C I'G	rrgce	C TO	J'I'GG'	rrrc.	r cc	CAG					CC C		293
220											56	er A	rg 11		er Le 60	eu	
221														21	0		
222 223	ama.	ama.	COM	mmm	000	OTT C	OTT C	maa.	ama	aaa	таа	CITIT	CAA	GAG	GGC	λCIT	341
223															Gly		341
225	rea	rea	АТа	265	сту	геа	rea	Cys	270	FIO	пр	Leu	GIII	275	сту	Ser	
225				203					210					213			
227	מככ	СУТ	ልርጥ	απα	ጥርም	מממ	CAA	GGA	ΔΔΔ	ሞልሞ	ΔͲС	CAC	ССТ	CAA	AAT	ΔΔΤ	389
228															Asn		303
229	ALU	ASP	280	* 44	Cyb	110	01	285	Lys	-] -		****	290	01		11011	
230			200														
231	TCG	АТТ	TGC	TGT	ACC	AAG	TGC	CAC	AAA	GGA	ACC	TAC	TTG	TAC	ААТ	GAC	437
232															Asn		
233		295	- 4 -	- 2		-2-	300		-2	2		305				•	
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235	TGT	CCA	GGC	CCG	GGG	CAG	GAT	ACG	GAC	TGC	AGG	GAG	TGT	GAG	AGC	GGC	485
236	Cys	Pro	Gly	Pro	Gly	Gln	Asp	Thr	Asp	Cys	Arg	Glu	Cys	Glu	Ser	Gly	
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240	Ser	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu	Arg	His	Cys	Leu	Ser	Cys	Ser	
241					330					335					340		
242																	
243															ACA		581
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248	Asp	Arg	_	Thr	Val	Cys	GTÀ	_	Arg	Lys	Asn	GIn	_	arg	His	Tyr	
249			360					365					370				
250	B 00		~		amm	mma	~~~	maa	mma		maa	100	ama	maa	ama	3.300	622
251															CTC		677
252	тrр		GIU	ASN	Leu	rne		cys	rne	ASN	cys		гeп	cys	Leu	ASII	
253		375					380					385					
254 255	000	N.C.C	ama	~	ama	maa	maa	C A C	CAC	***	CAC	224	N.C.C	CITIC	TO C	A C C	725
255 256															TGC Cys		123
250 257	390	IIII	νат	♣1T2	Ten	395	cys	GTII	GIU	пЛр	400	Wall	TIIL	val	Cys	405	
25 <i>1</i> 258	390					373					±00					403	
230																	

SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/08/804,166

DATE: 04/10/97 TIME: 08:47:08

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APPLICATION NUMBER FILING DATE CLASSIFICATION CURRENT APPLICATION DATA

umber:(J8/807,166			Ealtea by:	Date: 4/10/9
Changed a f	ile from non-ASCII	I to ASCII		Verified by:	(ST
Changed the	margins in cases	where the sequence	e text was "wrap _l	ped" down to the n	ext line.
Edited a for	nat error in the Cur	rrent Application Dat	ta section, specif	ically: ENT	Ep
		Data section with the plication data; or		number. The numb	per inputted by
Added the m	andatory heading	and subheadings fo	r "Current Applic	ation Data".	
Edited the "N	lumber of Sequenc	ces" field. The appli	cant spelled out	a number instead o	of using an integ
Changed the	spelling of a mand	datory field (the head	dings or subhead	dings), specifically:	
Corrected the	e SEQ ID NO wher	n obviously incorrect	t. The sequence	numbers that were	e edited were:
nserted or co	orrected a nucleic	number at the end o	f a nucleic line.	SEQ ID NO's edite	ed:
Corrected su	bheading placeme	ent. All responses m	ust be on the sar	me line as each su	bheading. If the
applicant plac	ced a response be	ent. All responses m low the subheading, /subheadings. Head	this was moved	to its appropriate p	•
applicant place	ons after headings/	low the subheading,	this was moved	to its appropriate p	•
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*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

DATE: 04/10/97 TIME: 17:05:27

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This Raw Listing contains the General Information Section and up to the first, 5 pages.

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NTERED
                                       SEQUENCE LISTING
 1
 2
 3
           General Information:
    (1)
 4
 5
          (i) APPLICANT: Campbell, Robert K.
 6
                         Jameson, Bradford A.
 7
                         Chappel, Scott C.
 8
        (ii) TITLE OF INVENTION: HYBRID PROTEINS
 9
10
       (iii) NUMBER OF SEQUENCES: 22
11
12
        (iv) CORRESPONDENCE ADDRESS:
13
14
               (A) ADDRESSEE: BROWDY AND NEIMARK
               (B) STREET: 419 Seventh Street N.W., Ste. 300
15
16
               (C) CITY: Washington
17
               (D) STATE: D.C.
18
               (E) COUNTRY: USA
               (F) ZIP: 22207
19
20
         (V) COMPUTER READABLE FORM:
21
22
               (A) MEDIUM TYPE: Floppy disk
23
               (B) COMPUTER: IBM PC compatible
24
               (C) OPERATING SYSTEM: PC-DOS/MS-DOS
25
               (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26
27
       (vi)
             CURRENT APPLICATION DATA:
28
               (A) APPLICATION NUMBER:
29
               (B) FILING DATE:
30
               (C) CLASSIFICATION:
31
       (vii) PRIOR APPLICATION DATA:
32
33
               (A) APPLICATION NUMBER:
                                         60/011,936
34
               (B) FILING DATE: 20 February 1996
35
               (C) CLASSIFICATION:
36
37
      (viii) ATTORNEY/AGENT INFORMATION:
38
               (A) NAME: Browdy, Roger L.
               (B) REGISTRATION NUMBER: 25,618
39
               (C) REFERENCE/DOCKET NUMBER: CAMPBELL=2A
40
41
42
        (ix) TELECOMMUNICATION INFORMATION:
43
               (A) TELEPHONE: (202) 628-5197
44
               (B) TELEFAX: (202) 737-3528
45
    (2) INFORMATION FOR SEQ ID NO:1:
46
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RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

DATE: 04/10/97 TIME: 17:05:30

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48		(i)) SE(QUENC	CE CE	IARAC	CTER	ISTIC	cs:								
49			(1	A) LE	ENGTI	I: 10)49 h	oase	pair	rs							
50			(I	3) TY	PE:	nucl	leic	acid	3							•	
51			i	2) S7	rani	EDNE	ESS:	sinc	ale								
52			•	•			line		•								
53		(iii	•	•			cDN/										
54		(/	, 1101	11001			02.112	•									
55		/100) FEA	ומוויי	ə.												
		(TX				/ TO \$2 .	ana										
56			•	•	AME/I			10									
57			(1	3) L(JCAT.	LON:	278	104	Ł /								
58																	
59		(X1)) SE(QUENC	CE DE	ESCR	LPTIC	on: S	SEQ :	ED NO):1:						
60																	
61	TCC	ACATO	GC 7	CACAC	GTA!	d Co	3CCCC	LAAT	A ATO	CCCT	TTGG	GCA	TAAC	GTG :	rccto	BAGGGG	60
62																	
63	AGAC	GCA	GCG A	ACCTO	TAG!	AT GO	GAC	GGGG	CAC	CTAAC	CCCT	CAG	TTTT(GGG (CTTC	CTCAAT	120
64																	
65	CTC	CTAT	rcg (CAT	SAATE	C CC	CAGTA	ATTTC	G GC	CAATO	CTCA	GAA	AGCT	CCT (CCTCC	CTGGA	180
66																	
67	GGG	TGG	AGA (BAGA	AAAC	CA AZ	CAGO	TCC	r gg/	AGCAC	GGA	GAG	CCT	GC (CTCTT	CCTCT	240
68																	
69	cccc	ביריירי (יריי נ	որշար	ימרר	יים מיו	יממייי	יייכייכ		מממי	י יייריני	r ccc	2 800	፣ ጥሮር	י כידו	CTC	295
70	CCGC	30100		.101	GCC					JAGG						Leu	2,75
71												r wri	, 1111	. Se	. 1160		
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72		a a m		~~~	ama	ama	maa	ama	a aa	maa	amm	~~ .	~~~	999	» am	aaa	242
73															AGT		343
74	Leu	A⊥a	Phe	_	Leu	Leu	Cys	Leu		Trp	Leu	GIn	GIU		Ser	АТА	
75				10					15					20			
76																	
77	GAT	AGT	GTG	TGT	CCC	CAA	GGA	AAA	TAT	ATC	CAC	CCT	CAA	AAT	AAT	TCC	391
78	Asp	Ser	Val	Cys	Pro	Gln	Gly	Lys	Tyr	Ile	His	Pro	Gln	Asn	Asn	Ser	
79			25					30					35				
80																	
81	ATT	TGC	TGT	ACC	AAG	TGC	CAC	AAA	GGA	ACC	TAC	TTG	TAC	AAT	GAC	TGT	439
82															Asp		
83		40	-1-		-1-	-7-	45	-1-			- 4 -	50	- 2 -			- 2	
84																	
85	CCA	aaa	aaa	aaa	CAC	CAM	N.C.C	CAC	maa	300	CAC	m/am	CAC	ACC	GGC	TICC	487
																	407
86		СТА	PIO	GLY	GIII		1111	Asp	cys	Arg		Cys	GIU	Ser	Gly		
87	55					60					65					70	
88																	- 2 -
89															TCC		535
90	Phe	Thr	Ala	Ser	Glu	Asn	His	Leu	Arg	His	Cys	Leu	Ser	Cys	Ser	Lys	
91					75					80					85		•
92																	
93	TGC	CGA	AAG	GAA	ATG	GGT	CAG	GTG	GAG	ATC	TCT	TCT	TGC	ACA	GTG	GAC	583
94	Cys	Arg	Lys	Glu	Met	Gly	Gln	Val	Glu	Ile	Ser	Ser	Cys	Thr	Val	Asp	
95	-	•	-	90		-			95					100			
96																	
97	CGG	CAC	ACC	GTG	TGT	GGC	TGC	AGG	AAG	AAC	CAG	TAC	CGG	CAT	TAT	TGG	631
98		•													Tyr		
99			105		- 4		4 -	110	_3.5			4 -	115		3	-	
			_ 55														

RAW SEQUENCE LISTING PATENT APPLICATION US/08/804,166

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														IN	PUT	SET:	S16859.raw
100 101 102			AAC Asn														679
103 104		120					125					130					
105 106			CAC His														727
107 108	135					140			-		145					150	
109 110			GGT Gly														775
111 112	1113	ALG	GLY	riic	155	Dea	Arg	GIU	ASII	160	Cys	V 41	DCI	Cys	165	OL,	
113			CCA														823
114 115 116	АТа	АТА	Pro	170	cys	Pro	GIU	cys	175	Leu	GIN	GIU	ASn	180	Pne	Pne	
117			CCG														871
118 119	Ser	Gln	Pro 185	GLY	Ala	Pro	Ile	Leu 190	GIn	Cys	Met	СТÀ	Cys 195	Cys	Phe	Ser	
120 121	AGA	GCA	TAT	CCC	ACT	CCA	CTA	AGG	TCC	AAG	AAG	ACG	ATG	TTG	GTC	CAA	919
122 123	Arg	Ala 200	Tyr	Pro	Thr	Pro	Leu 205	Arg	Ser	Lys	Lys	Thr 210	Met	Leu	Val	Gln	
124 125	AAG	AAC	GTC	ACC	TCA	GAG	TCC	ACT	TGC	TGT	GTA	GCT	AAA	TCA	тат	AAC	967
126 127	Lys 215	Asn	Val	Thr	Ser	Glu 220	Ser	Thr	Cys	Cys	Val 225	Ala	Lys	Ser	Tyr	Asn 230	
128 129	A GG	ሮ ሞሮ	ACA	GTC	ΔΤС	GGG	GGT	ጥጥር	ΔΔΔ	GTG.	GAG	AAC	CAC	ACG	GGG	TGC	1015
130			Thr														2010
132														•	243		
133 134			AGT Ser								TA	AG					1049
135 136				250					255								
137 138																	
139	(0)	TNE	20143	nton.	EOD	CEO.	TD 1	v	_								
140 141	(2)		ORMA!														
142 143			(i) :			CHAI GTH:					5						
144 145						PE: a											
146			:	•												•	•
147 148			ii) 1				_					_			•		
149 150		•	Ki) :	_						-					•		
151 152	Ser 1	Arg	Thr	Ser	Leu 5	Leu	Leu	Ala	Phe	Gly 10	Leu	Leu	Cys	Leu	Pro 15	Trp	

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														41	11 01	JEI.
153 154 155 156	Leu	Gln	Glu	Gly 20	Ser	Ala	Asp	Ser	Val 25	Cys	Pro	Gln	Gly	Lys 30	Tyr	Ile
157 158 159	His	Pro	Gln 35	Asn	Asn	Ser	Ile	Cys 40	Cys	Thr	Lys	Cys	His 45	Lys	Gly	Thr
160 161 162	Tyr	Leu 50	Tyr	Asn	Asp	Cys	Pro 55	Gly	Pro	Gly	Gln	Asp 60	Thr	Asp	Cys	Arg
163 164 165	Glu 65	Cys	Glu	Ser	Gly	Ser 70	Phe	Thr	Ala	Ser	Glu 75	Asn	His	Leu	Arg	His 80
166 167 168	Cys	Leu	Ser	Cys	Ser 85	Lys	Cys	Arg	Lys	Glu 90	Met	Gly	Gln	Val	Glu 95	Ile
169 170 171	Ser	Ser	Cys	Thr 100	Val	Asp	Arg	Asp	Thr 105	Val	Cys	Gly	Cys	Arg 110	Lys	Asn
172 173 174	Gln	Tyr	Arg 115	His	Tyr	Trp	Ser	Glu 120	Asn	Leu	Phe	Gln	Cys 125	Phe	Asn	Cys
175 176 177	Ser	Leu 130	Cys	Leu	Asn	Gly	Thr 135	Val	His	Leu	Ser	Cys 140	Gln	Glu	Lys	Gln
178 179 180	Asn 145	Thr	Val	Cys	Thr	Cys 150	His	Ala	Gly	Phe	Phe 155	Leu	Arg	Glu	Asn	Glu 160
181 182 183	Cys	Val	Ser	Cys	Ala 165	Gly	Ala	Ala	Pro	Gly 170	Cys	Pro	Glu	Cys	Thr 175	Leu
184 185 186	Gln	Glu	Asn	Pro 180	Phe	Phe	Ser	Gln	Pro 185	Gly	Ala	Pro	Ile	Leu 190	Gln	Cys
187 188 189	Met	Gly	Cys 195	Cys	Phe	Ser	Arg	Ala 200	Tyr	Pro	Thr	Pro	Leu 205	Arg	Ser	Lys
190 191 192	Lys	Thr 210	Met	Leu	Val	Gln	Lys 215	Asn	Val	Thr	Ser	Glu 220	Ser	Thr	Cys	Cys
193 194 195	Val 225	Ala	Lys	Ser	Tyr	Asn 230	Arg	Val	Thr	Val	Met 235	Gly	Gly	Phe	Lys	Val 240
196 197 198	Glu	Asn	His	Thr	Gly 245	Cys	His	Cys	Ser	Thr 250	Cys	Tyr	Tyr	His	Lys 255	Ser
199														•		
200	(2)	INF	ORMAT	NOI	FOR	SEQ	ID 1	10 : 3	:							
201			–									•	•			
202		(i)		_			CTER									
203 204							202 k Leic		pain	S		1	•			
204			•	•			ESS:									
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INPUT SET: S16859.raw

		ET: S16859.raw
206	(D) TOPOLOGY: linear	
207	(ii) NOTECHTE MUDE DVI	
208	(ii) MOLECULE TYPE: cDNA	
209 210	(ix) FEATURE:	
210	(A) NAME/KEY: CDS	
211	(B) LOCATION: 2791199	
213	(b) Bookiton. 2/////	
214	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
215	(,,	
216	CTCGAGATGG CTACAGGTAA GCGCCCCTAA AATCCCTTTG GGCACAATGT GTCCTG	AGGG 60
217		
218	GAGAGGTAGC GACCTGTAGA TGGGACGGGG GCACTAACCC TGAGGTTTGG GGCTTC	TGAA 120
219		
220	TGTGAGTATC GCCATGTAAG CCCAGTATTT GGCCAATGTC AGAAAGCTCC TGGTCC	CTGG 180
221		
222	AGGGATGGAG AGAGAAAAAC AAACAGCTCC TGGAGCAGGG AGAGTGCTGG CCTCTT	GCTC 240
223 224	TCCGGCTCCC TCTGTTGCCC TGTGGTTTCT CCCCAGGC TCC CGG ACG TCC CTG	293
224	Ser Arg Thr Ser Leu	
226	260	
227		
228	CTC CTG GCT TTT GGC CTG CTC TGC CTG CCC TGG CTT CAA GAG GGC A	GT 341
229	Leu Leu Ala Phe Gly Leu Leu Cys Leu Pro Trp Leu Gln Glu Gly S	er
230	265 270 275	
231		
232	GCC GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT A	
233	Ala Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn A	sn
234	280 285 290	
235	Mag 100 Mag 000 100 110 Mag 010 111 001 100 Mag 010 110 0	107
236 237	TCG ATT TGC TGT ACC AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT G Ser Ile Cys Cys Thr Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn A	
237	295 300 305	a p
239	273 300 303	
240	TGT CCA GGC CCG GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC G	GC 485
241	Cys Pro Gly Pro Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser G	ly
242		25
243		
244	TCT TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC T	
245	Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys S	er
246	330 335 340	
247		ma 501
248	AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TGC ACA G	
249	Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr V	ат
250 251	345 350 355	
251	GAC CGG GAC ACC GTG TGT GGC TGC AGG AAG AAG CAG TAC CGG CAT T	AT 629
253	Asp Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His T	
254	360 365 ◆ 370	4 =
255		
256	TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC A	AT 677
257	Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu A	
258	375 380 385	

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SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/08/804,166

DATE: 04/10/97 TIME: 17:05:45

INPUT SET: S16859.raw

< < THERE ARE NO ITEMS MISSING >>